

Safety Instruction & Operator's Manual

SNAPPER® **19" ELECTRIC**



**19E07
HI-VAC
SERIES**

WALK BEHIND MOWERS

Thank you for buying a SNAPPER product! Before operating your mower, read this manual carefully and pay particular attention to the **Important Safety Instructions on page 2. Remember that mowers and all power equipment can be dangerous if used improperly and keep in mind that safety requires careful use in accordance with the instructions and....common sense!**

SNAPPER POWER EQUIPMENT
McDonough, Georgia 30253
A Division of **Fuqua Industries**



Printed in U.S.A.

MANUAL #2-3830

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to comply with the following instructions may result in serious injury to the operator or other persons. The owner of the mower must understand these instructions and, furthermore, must allow only persons who understand these instructions to operate the mower. Any person operating the mower must be of sound mind and body and must not be under the influence of any substance which might impair vision, dexterity, or judgement.

TRAINING

1. Read this manual carefully and question your dealer if something is not clear. Should the dealer be unavailable or unable to answer to your satisfaction, write or call our Customer Service Department at the factory. Be thoroughly familiar with the controls and proper use of the equipment.

2. DO NOT allow children in yard when mower is operated.

3. DO NOT allow pre-teenage children to operate mower.

4. Only responsible teenagers with mature judgement shall be allowed to operate mower and only under close supervision.

5. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Never operate mower without proper guards, plates, safety switches, or other safety protective devices in place and properly connected. Inspect to determine that these safety devices are installed properly, are in good repair, and operate properly. If the condition or operation of these devices are questionable, they must be repaired or replaced before using the mower.

2. Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wire, bones and other foreign objects. Also note the location of holes, stumps and other possible hazards.

3. Dress properly - do not wear loose clothing or jewelry. They can be caught in moving parts. Do not operate mower when barefoot or wearing open sandals. Always wear substantial footwear and long pants.

4. Never attempt to make a wheel height adjustment while the motor is running.

5. When mowing over rough ground or in tall grass, mower must be set in highest cutting position.

6. Mow only in daylight or in good artificial light.

7. To prevent electric shock, never operate electric mower in wet grass or rain. Always be sure of footing; keep a firm hold on the handle and walk; never run.

8. **WARNING:** This electric model does not have an interlock to prevent operation with grass bag adapter or side chute off the machine--never attempt to operate mower without grass bag and adapter or side chute securely in place.

9. **WARNING:** To prevent electric shock, use only with an extension cord suitable for outdoor use. To prevent disconnection of cord during operation, tie cord as shown in figures 1 and 2 on page 3 of this manual.

10. To prevent unintentional starting, do not carry plugged-in mower with finger on switch. Be sure switch is off when plugged in.

11. Do not abuse cord -- never carry mower by cord or yank it to disconnect from receptacle. Keep cord away from heat, oil and sharp edges.

12. Use the right appliance - do not use lawn mower for any job except for that which it is intended.

OPERATION

1. Do not put hands or feet near or under rotating parts. Keep clear of discharge area while motor is running.

2. Stop motor and disconnect electrical cord when crossing gravel drives, walks or roads, and under any conditions where thrown objects might be a hazard.

3. After striking a foreign object or if mower vibrates abnormally, stop the motor and disconnect electric cord. Inspect the mower for any damage and repair the damage.

4. **STOP MOTOR** before: Adjusting cutting height; clearing clogged grass; removing grass bag; placing hands or feet near blade housing or before making any adjustments, repairs or inspections.

5. Before cleaning, repairing or inspecting, make certain blade and all moving parts have stopped. Disconnect electric cord to prevent accidental starting.

6. Stop motor and wait until the blade comes to complete stop before removing the grass bag and /or unclogging adapter or side chute.

7. Mow across steep slopes, never up-and-down. Exercise caution when changing directions on slopes. Do not mow excessively steep slopes.

8. To prevent electric shock, always mow away from electrical cord to avoid cutting it and resulting electrical hazard.

9. Don't force lawn mower - It will do the job better and safer at the rate for which it was designed. Don't overreach - keep proper footing and balance at all times.

MAINTENANCE AND STORAGE

1. Keep all nuts, bolts, and screws tight to be sure mower is in safe operating condition. Check the blade and motor mounting bolts at frequent intervals for proper tightness.

2. To reduce fire hazard keep mower free of grass, leaves, or excessive grease.

3. Check grass bag assembly frequently for wear or deterioration. Replace with new bag if loose seams or tears are evident. Replace slider or bag adapter if broken or cracked.

4. Have your mower inspected and serviced each year by an authorized Snapper dealer. Determine if any additional devices are available which might upgrade the safety of your mower.

5. Use identical replacement blades and parts only. Factory specified Snapper replacement parts must be used to assure adequate protection against injury.

6. Inspect electrical cord frequently and replace with authorized replacement if frayed, kinked or broken.

7. Store Idle Lawn Mower Indoors - When not in use, lawn mower should be stored indoors in dry, high or locked-up place - out of reach of children.

8. Maintain Lawn Mower With Care - Keep cutting edges sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

9. Disconnect Lawn Mower - Disconnect the lawn mower from the power supply when not in use, before servicing, when changing accessories such as blades, etc.

10. Keep blade sharp.

(continued on page 3)

SAFETY INSTRUCTIONS (Continued)

POWER SUPPLY CORDS

Use only UL marked extension cords suitable for outdoor use. A two conductor cord is adequate for the double insulated motor. Grounding is not required. The use of any extension cord will consume some power. To keep power loss to a minimum, use the following data to determine cord size.

MOTOR VOLTS 120V - AMPERE RATING 10				
CORD LENGTH (FEET)	25	50	100	150
MINIMUM GAGE (AWG)	18	16	14	12

OPERATING INSTRUCTIONS

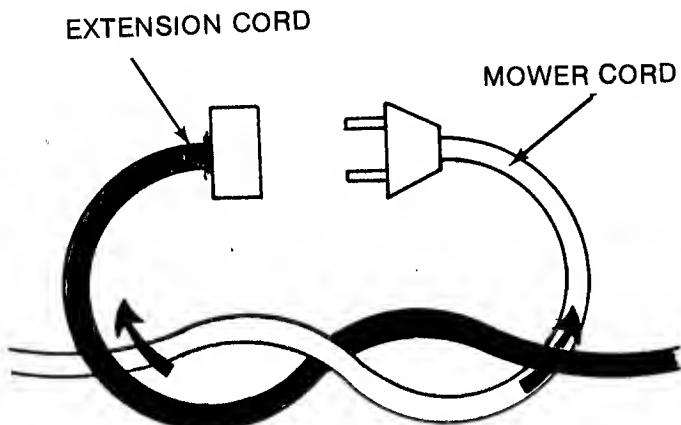


FIG 1 - TIE CORD AS INDICATED

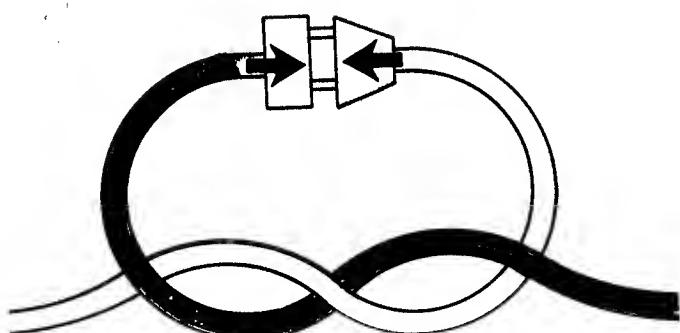


FIG 2 - CONNECT PLUG & RECEPTACLE

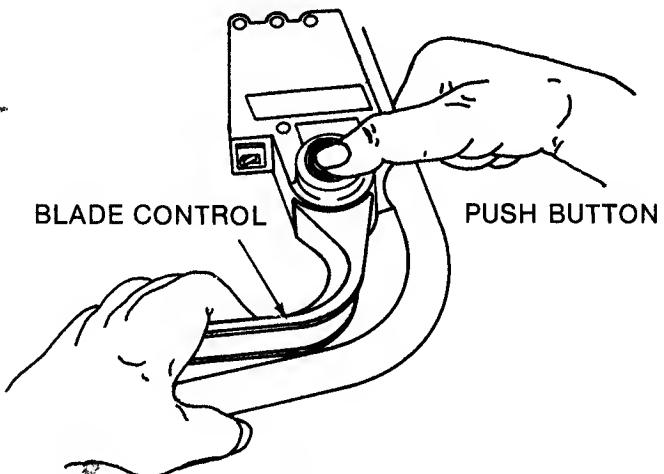


FIG. 3 - BLADE CONTROL SWITCH

PRE-START CHECKS

CHECK to make sure all guards, grass bag and adapter or side discharge chute are in proper place and securely tightened.

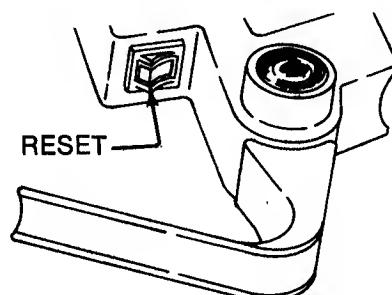
CHECK external surfaces of mower and remove any accumulation of dirt, dust, dried grass clippings, etc. Keep space between fins on cooling fan beneath deck clear at all times! Failure to do this will result in motor failure.

CHECK cutting height and readjust to desired height before starting. Refer to CUTTING HEIGHT ADJUSTMENT on page 4 for procedure.

OPERATING PROCEDURE

For easier starting, move mower to an area where grass is short enough not to interfere with rotation of cutting blade. Before starting, (especially for the first time) know how to stop the motor quickly in the event of emergency. To stop the motor, release the BLADE CONTROL.

STARTING-STOPPING: TO START, depress button on BLADE CONTROL SWITCH and hold BLADE CONTROL firmly to handle then release button. While mowing, push at a speed that is comfortable but slow enough to allow even cutting. TO STOP, release the BLADE CONTROL.



NOTE: If circuit breaker trips during operation of mower, allow the electric motor to cool for about 1 minute before resetting breaker.

FIG. 4 - CIRCUIT BREAKER

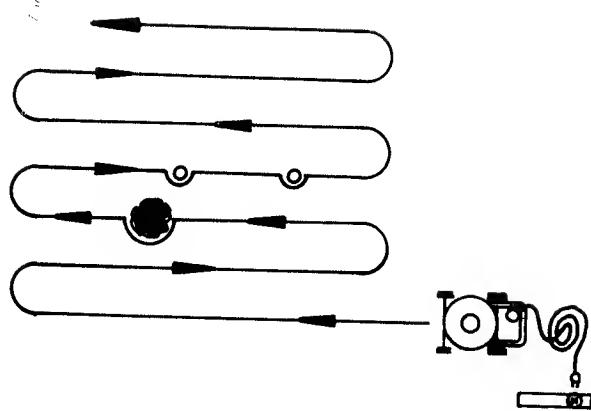


FIG. 5 - MOWING PATTERN

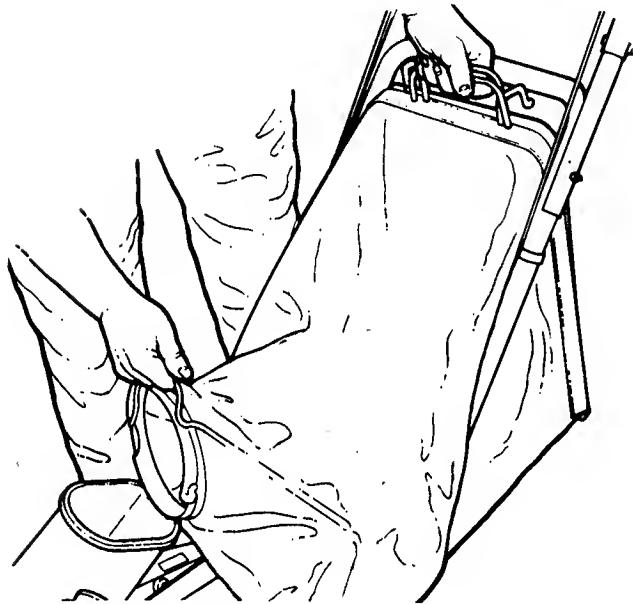


FIG. 6 - LOWER GRASS BAG BETWEEN HANDLES

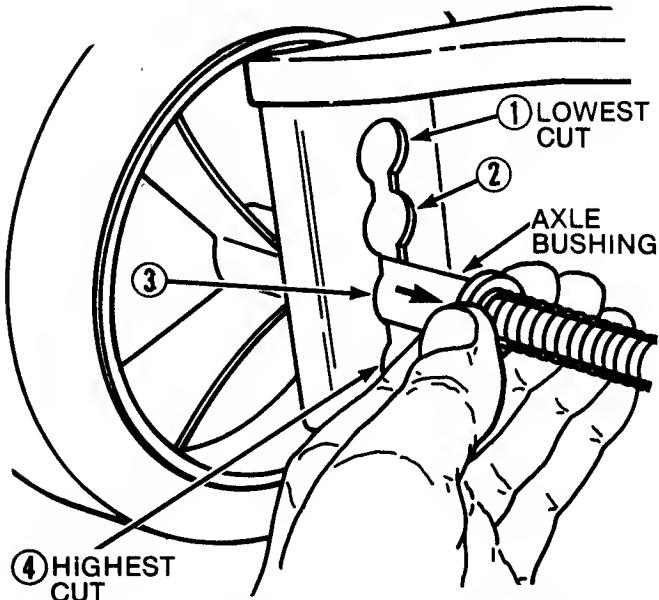


FIG. 7 - CUTTING HEIGHT ADJUSTMENTS

MOWING PROCEDURE

Always mow outward from the electrical outlet in a back and forth pattern as illustrated in figure 5. Mow away from the power cord to avoid cutting it. If the cord becomes damaged, replace it with the correct replacement cord only--substitute cords may appear identical but they might not be compatible with the electric motor. Be careful to avoid wrapping the cord around shrubs or trees as you mow. The mower cutting deck should be level. As a general rule for healthy lawns, never cut more than 1/3 off the height of the grass. If you want the grass cut shorter, wait a few days then reset and recut to the lower height.

EMPTYING GRASS CATCHER

To install the KWIK-N-EZY grass catcher on the mower, slide the connector down over the adapter flange then lower the support frame hooks onto the middle handle (see, figure 6). When the catcher becomes full, stop motor and lift the support hooks up over the handle then lift the connector off and continue lifting while moving the catcher forward until the bag clears the mower (see figure 6). To empty the bag, raise the connector end up and release the handle of the door flap. Shake the catcher back and forth to dump the clippings. If the bag is too heavy to lift between handles, lower it to ground.

TO EMPTY IN TRASH BAG: Use the following procedure to empty clippings in trash bag. After removing catcher from mower, place connector end on ground, open door flap, slip trash bag over the catcher, turn catcher over so that large opening is down inside bag, lift catcher by connector and door handles and shake until clippings are dumped in the trash bag.

WARNING: To prevent injury, never operate mower without bag and bag adapter or side chute in place.

CUTTING HEIGHT ADJUSTMENT

WARNING: To prevent injury, always STOP MOTOR by releasing the BLADE CONTROL before changing cutting height.

Positioning the axles in the lowest of the four adjustment positions in the wheel brackets raises the cutting deck to the highest cutting height which is about 3". The top position provides the lowest cut of about 1". Repositioning into the next height of cut position changes cutting height about 2/3rds of an inch.

Readjust cutting height with motor off as follows: To reposition front axle, push down on mower handles to raise front wheels off the ground then pull in on one of the spring loaded bushings until it clears the bracket, move to the desired height of cut position and release the bushing. Repeat procedure on bushing on other side of axle. When repositioning rear axle, lift handles to raise one of the rear wheels off ground then change axle position using same procedure as used on front axle. Repeat same procedure on other rear wheel. **NOTE:** Make sure axle bushings are firmly engaged and in the same height of cut position in the brackets on both sides of axle.

HANDLE HEIGHT ADJUSTMENT

Handle height is adjustable to any point within a range of about five inches to provide the most comfortable position for you. With the blade released and motor stopped, set the cutting height in the position where you anticipate doing most of your mowing then loosen the two nuts securing the handles to the wheel brackets, move the handle to the desired position and securely tighten the two nuts.

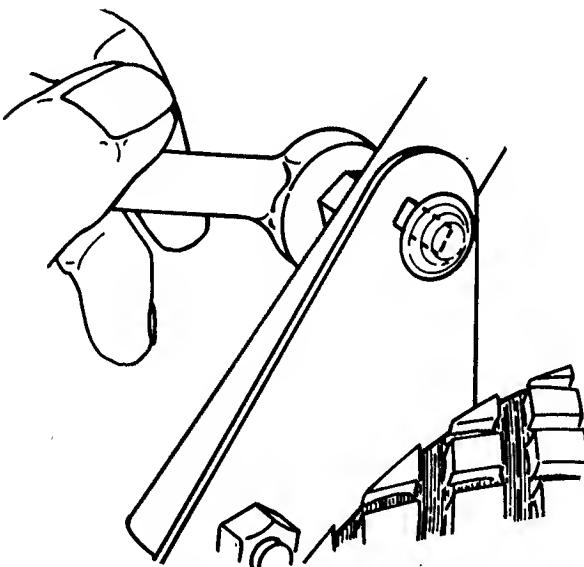


FIG. 8 - HANDLE HEIGHT ADJUSTMENT

FOLDING HANDLES

The handles of your mower can be folded for storage or for transporting in a confined space such as the trunk of your car. To fold, loosen the two wing nuts securing the upper to the lower handle then swing upper handle forward. Next loosen (but do not completely remove), the capscrews securing the lower handles to both rear wheel brackets. Press lower segment of both handles inward until ends clear the lower pivot on both sides then swing handles forward over the motor and mower. NOTE: The grass bag and adapter, on mowers so equipped, must be removed from the cutting deck to completely fold handles. The side chute does not interfere with folding.

ADAPTER-SIDE CHUTE CHANGES

When changing from bagging to side discharge, remove the three locknuts and washers securing adapter to deck, pry the rear lower edge of the adapter away from the deck unit clear then remove adapter. Guide side chute into position over bolt on side of deck then over bolt extending from top of deck. Secure with two locknuts. Reverse procedure to remove side chute. To install adapter, guide adapter over stud on the rear side of deck, push adapter in from side over stud on top of the deck, then downward until adapter snaps into place over front side stud. Secure with three locknuts and washers.

STORAGE PROCEDURE

Take the following steps to prepare your mower for storage at the end of the mowing season. Refer to the electric motor manual for directions for preserving the motor. With the electric cord disconnected, thoroughly clean underside of deck. Scrape away accumulations of grass with putty knife and/or wire brush. Clean external surfaces of mower, then lubricate all exposed metal surfaces with a light coat of oil to prevent corrosion. Make sure grass bag is completely emptied to prevent decay and formation of mold inside the bag while in storage. The grass bag may be washed in detergent but allow it to dry thoroughly after washing. Store mower during off season in storage shed or dry area protected from weather.

WARNING: To prevent injury, do not spray water into motor or switch.

POPULAR ACCESSORIES

The following accessories are available and approved for use with the Snapper 19" Electric Lawnmowers.

SIDE CHUTE KIT: Your mower can be quickly converted from grass catcher to side discharge with the side chute kit to broadcast clippings and eliminate bagging whenever desired, and to quickly convert back to bagging operation.

WARNING: To prevent injury, do not use any accessory other than those listed above.

SERVICE

WARNING: When performing any service on the mower, always disconnect the electrical cord to prevent unintentional starting.

SERVICE ASSISTANCE-REPLACEMENT PARTS

To maintain the original quality of your mower, use Genuine Snapper Replacement Parts only. To obtain the correct part for your particular mower, always specify model and serial number as found on name plate. Contact your Snapper Dealer for parts and service assistance. We recommend returning your mower to an authorized Snapper Dealer once each year for inspection and addition of any new devices which might upgrade the safety of your mower. For the nearest Snapper Dealer, check the Yellow Pages of your telephone directory under the heading LAWN MOWERS.

DECK SERVICE

To prolong the life and efficiency of your mower, keep the underside of deck clean and free of accumulated grass clippings by disconnecting electrical cord and scraping with a wire brush and scraper. Make sure this is done at the end of the cutting season before placing the mower in storage.

WARNING: To prevent injury, do not spray water into motor or switch.

CUTTING BLADE SERVICE

WARNING: To prevent injury, disconnect the electrical cord before checking under cutting deck or before doing any work on the blade.

CHECK at frequent intervals to make sure the blade is securely tightened and that it is in good condition.

REPLACE blade if badly chipped, bent, out of balance or as soon as notch starts wearing in the tip between the flat surface and upturned lift as depicted in View B, Figure 10. This type wear pattern occurs more rapidly under sandy soil conditions.

WARNING: Never operate the mower with the blade worn to the extent depicted in view C as the tip could fly off causing personal injury or property damage.

SHARPEN blade when the cutting edges become dull if the blade is in otherwise good condition. When dull, the grass cut ends will be ragged and usually turn brown soon after mowing. For best results, remove the blade and sharpen it on a grinding wheel at an angle of 22 to 28 degrees. The cutting surface should extend in about $2\frac{1}{2}$ " from the tips. Check the blade after sharpening to determine that it is still balanced. It will cause excessive vibration if unbalanced. **BE CAREFUL: AVOID CUTTING YOURSELF ON SHARP BLADE!**

INSTALL sharpened or replacement blade with components in same sequence as removed. The widest part of the cone washer goes next to the underside of blade. Make sure that the turned-up rims in the center of the blade fit over the edges of the blade drive hub when installing. Do not substitute any components here. Tighten the blade retaining capscrew to 20 foot pounds torque value.

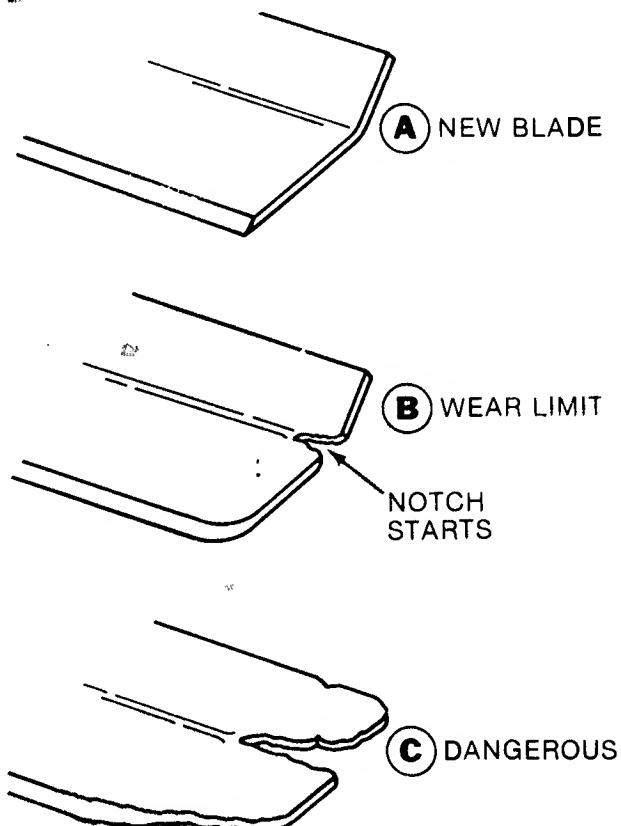


FIG. 10 - BLADE TIP WEAR PATTERNS

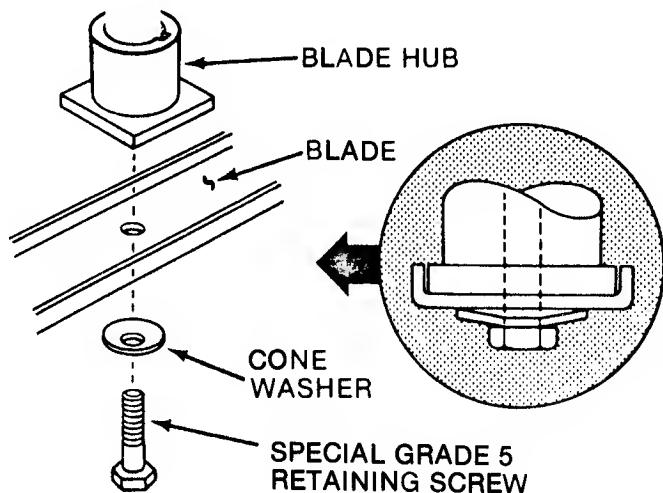


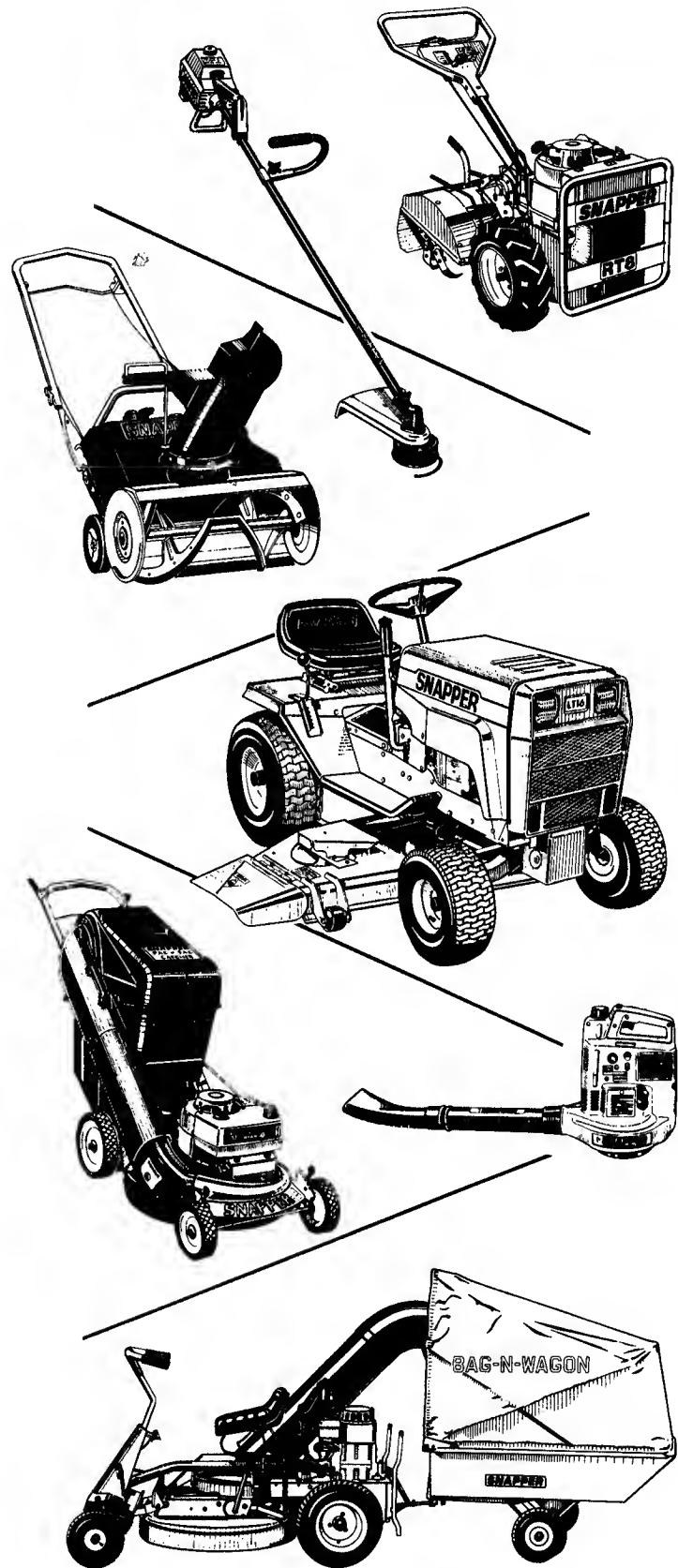
FIG. 11 - BLADE RETENTION DETAIL

SERVICE NOTES

OTHER

SNAPPER

PRODUCTS...



SNAPPER®

19" ELECTRIC

SERIES



MANUFACTURER'S 2 YEAR LIMITED WARRANTY

For two (2) Years from purchase date for the original purchaser's residential, non-commercial use [ninety (90) days from purchase date for the original purchaser's commercial, rental, or other non-residential use], SNAPPER POWER EQUIPMENT, through any SNAPPER dealer will replace, free of charge, any part or parts found upon examination by the factory at McDonough, Georgia, to be defective in material or workmanship or both.

All transportation cost incurred by the purchaser in submitting material to a SNAPPER dealer for replacement under this warranty must be borne by the purchaser.

This warranty does not apply to electric motors, motor controls and their components, as these items are warranted separately by their manufacturers. This warranty does not apply to parts that have been damaged by accident, alteration, abuse, improper lubrication, normal wear, or other cause beyond our control.

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two (2) years from purchase date for the original purchaser's residential, non-commercial use [ninety (90) days from purchase for the original purchaser's commercial, rental or other non-residential use], and to the extent permitted by law any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages, under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WARNING: USE OF REPLACEMENT PARTS OTHER THAN GENUINE SNAPPER PARTS MAY IMPAIR THE SAFETY OF YOUR PRODUCT.

IMPORTANT: Please fill out the attached SNAPPER Product Registration Card immediately and mail to: SNAPPER POWER EQUIPMENT, McDONOUGH, GEORGIA 30253

SNAPPER POWER EQUIPMENT

McDonough, GA • 30253

